

IN THE CLAIMS

By this submission, claims 1-10 and 18-24 are cancelled. The status of all claims is provided below.

1-10 (Cancelled)

11. (Presently amended) An assay device comprising:

a housing;

a first device region formed by or within said housing for receiving a fluid sample;

a second device region fluidly connected to said first device region, said second device region comprising one or more capture zones on a surface within said housing, each said capture zone comprising molecules of a first antibody or binding fragment thereof reactive with an analyte of interest and at least one analyte sensor configured and arranged to detect an electrochemical signal related to reaction of a detectable amount of said analyte of interest with molecules of said first antibody or binding fragment thereof and produce a measurable signal in response, said signal being mediated by an enzyme conjugated to a second antibody or binding fragment thereof reactive with said analyte of interest; and

a labeled reagent species dissolvably disposed on a surface within said housing that is in fluid communication with said second device region, wherein molecules of said labeled reagent species comprise said an enzyme conjugated to said a second antibody or binding fragment thereof reactive with said analyte of interest, wherein molecules of said labeled reagent species form sandwich complexes with molecules of said analyte of interest and with molecules of said first antibody or binding fragment thereof.

12. (Original) An assay device according to claim 11, wherein said first antibody or binding fragment thereof is bound to one or more latex particles, and said particles are bound to said capture zone.

13. (Original) An assay device according to claim 11, comprising a plurality of capture zones corresponding to a plurality of different analytes of interest.

14. (Original) An assay device according to claim 11, wherein a predetermined volume of said fluid sample is delivered from said first device region to said second device region by capillary action.

15. (Original) An assay device according to claim 11, wherein said analyte sensor uses amperometric measurements to detect said electrochemical signal.

16. (Original) An assay device according to claim 11, wherein said analyte sensor uses potentiometric measurements to detect said electrochemical signal.

17. (Original) An assay device according to claim 11, wherein said surface within said housing comprising capture zones is an inner surface of the housing.

18-24 (Cancelled)